Forestland Interpretations

Forestland interpretations are important to good management. The management of trees begins with an understanding of the soil where they grow or are to be grown. Some soils are very suitable for growing wood crops; others barely support tree cover. Different tree species may vary in production on the same soil.

Forestland interpretations should be used to assist land users in planning, installing, and maintaining forestland management systems.

Forest Management and Productivity

The Forestland Management and Productivity tables presents information about suitable for producing timber for each soil map unit. Management concerns, which include hazard of erosion, equipment use, seedling mortality, and windthrow hazard, are listed by ratings of SLIGHT, MODERATE, or SEVERE. Information on potential productivity includes plant competition, common trees, site index, productivity class, and trees to plant.

Management Concerns

EROSION HAZARD - the risk of erosion is slight if the expected soil loss is small; moderate if some measures are needed to control erosion during logging; and severe if intensive management or special equipment and methods are needed to prevent excessive loss of soil.

EQUIPMENT LIMITATION - A rating of slight indicates that use of equipment is not limited to a particular kind of equipment or time of year; moderate indicates a short seasonal limitation, or a need for some modification in management of equipment; and severe indicates a seasonal limitation, a need for special equipment or management, or a hazard in the use of equipment.

SEEDLING MORTALITY - The ratings are for seedlings from a good planting stock that are properly planted during a period of sufficient rainfall. A rating of slight indicates that the expected mortality of the planted seedlings is less than 25 percent; moderate - 25 to 50 percent; and severe - more than 50 percent.

WINDTHROW HAZARD - A rating of slight indicates that trees in wooded areas are not expected to be blown down by commonly occurring winds; moderate - that some trees are blown down during periods of excessive soil wetness and strong winds; and severe that many trees are blown down during periods of excessive soil wetness and moderate or strong winds.

PLANT COMPETITION - A rating of slight indicates little or no competition from other plants; moderate indicates that plant competition is expected to hinder the development of the fully stocked stand of desirable trees; and severe means that plant

competition is expected to prevent the establishment of a desirable stand unless the site is intensively prepared, weeded, or otherwise managed for the control of undesirable plants.

POTENTIAL PRODUCTIVITY - This is discussed under the ordination class symbol.

COMMON TREES - Trees that generally occur on the soil are listed regardless of economic importance.

SITE INDEX AND PRODUCTIVITY CLASS - These are discussed under ordination class symbol.

TREES TO PLANT - Trees that are suitable for commercial wood production and that are adapted to the soil.

See the National Forestry Manual, Subpart B for criteria used in rating management concerns.

This subsection includes:

• (a) Forest Management (one or two tables)

78 Soil Survey

Table 7.--Forest Productivity

(Only the soils suitable for production of commercial trees are listed. Absence of an entry indicates that information was not available.)

	Potential produ	uctivi	ту	
Map symbol and			Volume	
soil name		•	of wood fiber	
		I	cu ft/ac	I
	1	I	I	I
70030:	1	I	I	1
Noark	black oak	65	43	black oak, northern
	eastern redcedar	40	43	red oak, white oak
	northern red oak		43	l
	shortleaf pine	•		
	southern red oak	•		<u> </u>
	white oak			1
Clarksville	black oak	•	l I 43	ı black oak, northern
CIUINOVIIIC	northern red oak	•		red oak, shortleaf
	shortleaf pine			pine, white oak
	white oak			l
	1	I	I	l
70031:	1	l	l	l
Hailey	black oak			black oak, northern
	hickory	•	-	red oak, shortleaf
	northern red oak post oak			pine, white oak
	white oak			I I
		1 02 I	- 33	l
Rueter	black oak	61	43	black oak,
	northern red oak	61	43	shortleaf pine,
	white oak	58	43	white oak
	1	1	l	1
70032:	 }	l C0	l . 42	
Tonti	black oak post oak			black oak, shortleaf pine
	shortleaf pine			SHOTCTEAL PINE
		 	1	I
70033:	1	I	I	l
Moko	eastern redcedar	30	29	eastern redcedar
Poak outaron		 	l] I
Rock outcrop.	I I	I I	l I	!
70034:	i	i I		·
Moko	eastern redcedar	30	29	eastern redcedar
	1	I	l	l
Blueye	blackjack oak			eastern redcedar
	eastern redcedar			<u> </u>
	post oak	 	 	l 1
Rock outcrop.	i	i I	' 	!
•	İ	l	I	I
70035, 70036:	1	I	I	l
Sonsac	black oak			black oak, eastern
	post oak			redcedar,
	white oak	42	29	shortleaf pine
Gobbler	 black oak	I I 58	l I 43	 black oak,
	northern red oak			shortleaf pine
	white oak	•		
	1	I	I	I
70037:	1	l	l 	l
Sonsac	•			black oak, eastern
	post oak			redcedar,
	white oak			shortleaf pine
	1	ı	l	

Table 7.--Forest Productivity--Continued

79

hickory		Potential productivity			I	
	Map symbol and	I	Site	Volume	I	
	soil name	Common trees			·	
		<u> </u>		·	· · · · · · · · · · · · · · · · · · ·	
Pueter		1	!	cu ft/ac		
Pueter	70037		 	 		
		। ∣black oak	ı I 74	ı I 57	ı Iblack oak, white	
white oak	1.0002				•	
Moko					l	
Moko		1	I	I		
Rock outcrop.		1	I	I	l	
	Moko	eastern redcedar	30	l 29	eastern redcedar	
	Pook outoner		 	 -	1	
	ROCK OUTCIOP.	1	! 	! !	! 	
	70050:	1	i I	' 		
		· black oak	74	I 57	black oak, white	
White oak		northern red oak	l	I	oak	
		· -			l	
		white oak	75	j 57	<u> </u>	
	Conn	 lbl calc calc	 F7	l . 43	 h nal- asl-	
	GUSS			•		
Shortleaf pine 57 86			•	-		
white oak		·-				
Hailey		· -			l	
Hailey		1	I	I	I	
hickory		•	I	I	l	
northern red oak 65 43 pine, white oak white oak 62 43 Rueter 62 43 Rueter 156 black oak, white northern red oak 74 56 black oak, white northern red oak 75 56 71252:	Hailey				black oak, northern	
white oak					•	
Rueter					pine, white oak	
			1 02 I	l 43	! 	
	Rueter	black oak	74	I 56	 black oak, white	
		northern red oak				
Britwater		white oak	75	56	l	
Britwater		1	I	I	l	
		1	l 	! 		
shortleaf pine 70 114 white oak	Britwater					
					_	
73070:		· -	i 70		WILL COURT	
	73070:	İ	I	I	l	
shortleaf pine	Sowcoon	black oak	65	43	black oak, northern	
white oak 66 43		northern red oak	70	57	red oak, shortleaf	
		-			pine	
73113:						
Scholten	73113.	•	I I	I I	1 I	
hickory redcedar, post oak 45 29 shortleaf pine			ı I 45	ı I 29	ı Iblack oak, eastern	
	20.102.50.1			•		
Captina		_				
Captina		I	I	I	l	
	73114:	1	l	I	l	
	Captina			-		
shortleaf pine 60 86		_			shortleaf pine	
		•	•	•		
Horneybuck black oak 57 43 black oak, post oak 5 5 shortleaf pine, white oak 55 43 white oak			, 30 I	, 00 I		
Horneybuck black oak 57 43 black oak, post oak 5 5 shortleaf pine, white oak 55 43 white oak	73115:	I	I	I	I	
post oak shortleaf pine, white oak 55 43 white oak		black oak	57	43	black oak,	
Tonti black oak 60 43 black oak, post oak 45 29 shortleaf pine		white oak	55	l 43	white oak	
post oak 45 29 shortleaf pine			•	•	•	
	Tonti			-		
shortrear pine 54 86					shortleaf pine	
		=			 	

80 Soil Survey

Table 7.--Forest Productivity--Continued

	Potential produ	ıctivi	ty	
Map symbol and			Volume	I
soil name			of wood	
	I	l	fiber	l
	I	l	cu ft/ac	
	I	I	I	l
73116:	I	l	l	I
Pomme	northern red oak	65	43	black walnut,
	white oak	65	43	shortleaf pine,
	I	I	I	white oak
	<u> </u>	l		<u> </u>
73117:		l 	l . 42	 }
Clarksville	black oak		•	black oak, northern
	northern red oak			red oak, shortleaf
	shortleaf pine white oak			pine, white oak
	WILL CE OAK		1 5	!
Scholten	black oak	•	•	 black oak,
	hickory		•	shortleaf pine,
	post oak			white oak
	I	I	I	I
Hailey	black oak		l	black oak, northern
	hickory			red oak, shortleaf
	northern red oak			pine, white oak
	post oak			<u> </u>
	white oak	62	43	<u> </u>
	<u> </u>	l	l	<u> </u>
73118:		. 74		
Rueter	black oak			black oak, white
	white oak			oak
	WILLIE Oak	/3 	l 20]]
Goss	black oak	ı I 57	l 43	 black oak,
	blackjack oak		•	shortleaf pine,
	post oak			white oak
	shortleaf pine			
	white oak			I
	I	I	I	l
73119:	I	l	l	I
Rueter	black oak			black oak, white
	post oak			oak
	white oak	75	56	<u> </u>
	l	l	l	l
Hailey	black oak			black oak, northern
	hickory northern red oak		•	red oak, shortleaf pine, white oak
	northern red oak		•	l brue, wurte oak
	white oak		•	!
		. 52	, 1 5	I
73120:	I	I		
	black oak	74	57	black oak, white
	northern red oak			oak
	post oak			l
	white oak	75	57	
	I	I	I	I
Gasconade	blackjack oak			eastern redcedar
	chinkapin oak			l
	eastern redcedar		•	<u> </u>
	post oak]
Pock outeren	I I	l I	I I]
Rock outcrop.	I I	I I	I I	1 I
73121:	' 	ı I	I	!
	 black oak	45	ı 29	ı black oak,
- 	hickory			shortleaf pine,
	post oak			white oak
	: -			I

Table 7.--Forest Productivity--Continued

Map symbol and	Potential produ		Volume	
				Trees to manage
	<u> </u>	l	fiber	<u> </u>
	I	I	cu ft/ac	I
72101	1	l	l	
73121: Tonti	 black oak	I 60	I 43	 black oak,
	post oak			shortleaf pine
	shortleaf pine			
	I	l	I	I
73122:	I	I	I	l
	blackjack oak			eastern redcedar
	chinkapin oak eastern redcedar		•	
	post oak			
	1	I	I	I
Rock outcrop.	I	l	I	I
	1	I	I	l
73123:			1 42	
	black oak northern red oak			black oak, northern red oak, white oak
	white oak		•	l led oak, white oak
	1		 I	
Ocie	black oak	60	43	black oak,
	northern red oak	55	l 43	shortleaf pine
	white oak	57	43	
72124		l	l	
73124: Alred	 black oak	I I 69	I 43	 black oak,
	shortleaf pine		-	shortleaf pine,
	white oak			white oak
	l	l	l	l
Ocie	black oak	60	•	black oak,
	northern red oak			shortleaf pine
	white oak	57	43	1
73127:	I I	l I	! !	!
	black oak	, 58	43	 black oak,
	northern red oak			shortleaf pine
	white oak	57	43	I
	1	•	I	l
	black oak		-	black oak, eastern
	eastern redcedar post oak		-	redcedar, shortleaf pine
	white oak			SHOTCTEAT PINE
	I	I	i	I
73128:	I	l	I	I
	black oak	58	-	black oak, northern
	northern red oak			red oak, shortleaf
	white oak	57 	43	pine
Sonsac	 black oak	l I 54	ı 29	 black oak, eastern
	eastern redcedar		•	redcedar,
	post oak			shortleaf pine
	white oak	42	29	l
	1	l	1	
	1	l	l	
73132: Gasconade	Iblackiack oak	I I	l I	 eastern redcedar
	chinkapin oak			
	eastern redcedar		•	
	post oak		I	I
	I	I	I	I

82 Soil Survey

Table 7.--Forest Productivity--Continued

	Potential productivity			 I	
Map symbol and			Volume	I	
7 7.			of wood		
	I		fiber		
	I	l	cu ft/ac		
	I	I		l	
73133:	I	l	l I	l	
Alred	black oak	69	43	black oak,	
	shortleaf pine			shortleaf pine,	
	white oak			white oak	
	 black oak	•	12	l	
	northern red oak		-		
	white oak			! 	
		l .	1		
73134:		I	İ		
Alred	northern red oak	65	43	northern red oak,	
	shortleaf pine	65	86	shortleaf pine,	
	white oak	60	43	white oak	
	l ,		1	l 	
	black oak			black oak,	
	northern red oak white oak	•	•	shortleaf pine	
	wnite oak		43 	I 	
	 black oak			 black oak, eastern	
	post oak		-	redcedar,	
	white oak			shortleaf pine	
	I	l		i -	
74638, 74639:	I	l	l I	I	
Waben	black oak	71	57	black oak, northern	
	northern red oak	66	57	red oak, shortleaf	
	shortleaf pine			pine, white oak	
	white oak	66	43		
74640:	 -	l		1	
	 American sycamore	I I	 	 black walnut,	
	black walnut			northern red oak,	
	common hackberry			white ash, white	
	green ash			oak	
	red maple			l	
	white oak				
	I	l	l	l	
75401:	l	l	l	l	
	American elm			black walnut,	
	American sycamore Shumard's oak			eastern	
	black walnut			cottonwood, white ash	
	common hackberry				
	green ash				
	pin oak	70	57	l	
	red maple			I	
	<u> </u>	l	<u> </u>	<u> </u>	
	American sycamore			black walnut, green	
	black walnut			ash, pecan	
	cottonwood			I I	
	green ash pecan			1 	
	river birch			! 	
		 I	. – 	I	
75402:		I			
	American sycamore			black oak, black	
	black oak			walnut, green ash,	
	black walnut			northern red oak	
	green ash			I	
	I	I	I	I	

Table 7.--Forest Productivity--Continued

	Potential productivity			I
Map symbol and		Site	Volume	l
soil name	Common trees	index	of wood	Trees to manage
	I	I	fiber	I
	1	ı	cu ft/ac	I
	1	I	ı	ı
75403:	I	I	I	I
Cedargap	American sycamore			black oak,
	black oak	l 66	43	shortleaf pine
	chinkapin oak			I
	northern red oak	58	43	I
	1	I	1	I
Woolly	American sycamore		0	American sycamore,
	black oak		0	black walnut,
	black walnut		0	shortleaf pine
	white oak	60	43	I
	1	I	1	I
75404:	1	I	1	I
Pinerun	American sycamore	J 90	114	black oak, black
	black oak	60	43	walnut, green ash,
	black walnut			northern red oak
	green ash			I
	1	I	1	I
75405:	1	I	1	I
Pinerun	American sycamore	90	114	black oak, black
	black oak	60	43	walnut, green ash,
	black walnut			northern red oak
	green ash			I
	1	I	1	I
Waben	black oak	71	57	black oak, black
	northern red oak	l 66	57	walnut, northern
	shortleaf pine	I 70	114	red oak, shortleaf
	white oak	l 66	57	pine, white oak
	I	I	1	I